WHAT IS CLAIMED IS:

1.   A storage medium comprising:

a storage device for storing information, an encryption key required for encoding, and encoded information;

5   an input/output device for inputting and outputting information stored in said storage device, said encryption key, and encoded information; and

an encoding device for encoding of information and decoding of encoded information,

10   wherein when outputting information stored inside said storage device to outside said storage medium, along with obtaining information encoded by using said encryption key, said encryption key used when encoding information is encoded by using another encryption key thereby to obtain an encoded encryption

15   key, and both said encoded information and encoded encryption key information are output.

2.   A storage medium according to claim 1, wherein said input/output device, said encoding device, and said storage

20   device are constituted on the same semiconductor chip.

3.   A storage medium comprising:

a storage device for storing information, an encryption key required for encoding, and encoded information;

an input/output device for inputting and outputting

25   information stored in said storage device, said encryption key,

and encoding information; and

an encoding device for encoding of information and decoding of encoded information,

wherein when outputting information stored inside said

5 storage device to outside said storage device, along with obtaining information encoded by using said encryption key, said encryption key used when encoding information is encoded by using another encryption key thereby to obtain an encoded encryption key, and first, only said encoded information is output, and

10 when a signal showing encoded information was input is input from an external apparatus, said encoded encryption key is output after voiding said information stored in said storage device.

4. A storage medium according to claim 3, wherein said input/output device, said encoding device, and said storage

15 device are constituted on the same semiconductor chip.

5. An information storage system comprising,

a storage medium having: a storage device for storing information, an encryption key required for encoding, and encoded information; an input/output device for inputting and outputting

20 said information, said encryption key, and encoding information stored in said storage device; and an encoding device for encoding of information and decoding of encoded information, and

an external apparatus connected to said storage medium,

wherein information encoded by utilizing an encryption

25 key, and an encryption key utilized when encoding said information,

are sent with an encryption key encoded utilizing another encryption key and stored in said external apparatus.

6.   An information storage system according to claim 5, wherein said input/output device, said encoding device, and said storage device are constituted on the same semiconductor chip.

7. An information transfer system comprising,

a storage medium having: a storage device for storing information, an encryption key required for encoding, and encoded information; an input/output device for inputting and outputting information stored in said storage device, said encryption key, and encoding information; and an encoding device for encoding of information and decoding of encoded information, and

an external apparatus to receive information stored in said storage medium;

wherein when transferring said information to said external apparatus, said encoded information encoded by utilizing an encryption key is sent to said external apparatus, and after a signal showing said encoded information was received is received from said external apparatus, said information stored in said storage device is voided, and an encoded encryption key is sent to an external apparatus.

8.   An information transfer system according to claim 7, wherein said input/output device, said encoding device, and said storage device are constituted on the same semiconductor

chip.